

50 FR 41028

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## FEDERAL REGISTER

50 FR 41028

October 8, 1985

National Toxicology Program  
Chemicals (5) Nominated for Toxicological Studies; Request for Comments

**SUMMARY:** On July 30, 1985, the Chemical Evaluation Committee (CEC) of the **National Toxicology Program** (NTP) met to review five chemicals nominated for toxicology studies and to recommend the types of testing to be performed. With this notice, the NTP solicits public comment on the five chemicals listed herein.

**FOR FURTHER INFORMATION AND SUBMISSIONS OF COMMENTS, CONTACT :**Dr. Victor A. Fung, Chemical Selection Coordinator, **National Toxicology Program**, Room 2B55, Building 31, National Institutes of Health, Bethesda, Maryland 20892 (301) 496-3511.

**TEXT: SUPPLEMENTARY INFORMATION:** As part of the chemical selection process of the National Toxicology Program, nominated chemicals which have been reviewed by the NTP Chemical Evaluation Committee (CEC) are published with request for comment in the Federal Register. This is done to encourage active participation in the NTP chemical evaluation process, thereby helping the NTP to make more informed decisions as to whether to select, defer or reject chemicals for toxicology study. Comments and data submitted in response to this request are reviewed and summarized by NTP technical staff, are forwarded to the NTP Board of Scientific Counselors for use in their evaluation of the nominated chemicals, and then to the NTP Executive Committee for its decision-making about testing. The NTP chemical selection process is summarized in the Federal Register, April 14, 1981 (46 FR 21818), and also in the NTP FY 1984 *Annual Plan*, pages 185-186.

| Chemical                    | CAS No.   | Committee recommendation   |
|-----------------------------|-----------|--|
| 1. 2-Butoxyethanol acetate  | 112-07-2  | Inhalation chemical disposition study.   |
| 2. 2-Ethoxyethanol acetate  | 111-15-9  | Inhalation chemical disposition study.   |
| 3. 2-Methoxyethanol acetate | 110-49-6  | Inhalation chemical disposition study.   |
| 4. 2-Ethoxyethanol          | 110-80-5  | Inhalation chemical disposition study.<br>Inhalation carcinogenicity and toxicity studies, including testing for hematological, immunological, and neurological effects. |
| 5. 2-Methoxyethanol         | 109-86-4- | Inhalation chemical disposition study.<br>Inhalation carcinogenicity and toxicity studies, including testing for hematological, immunological and neurological effects.  |

The CEC reviewed the three ethylene glycol ether acetates as a group. The committee recommended comparative chemical disposition studies by the inhalation route for the acetates and the three parent ethylene glycol ethers in order to determine whether the acetates are hydrolyzed to the parent compounds and then distributed, metabolized and excreted equivalently to the parent compounds. (2-Butoxyethanol was recently selected as one of the NTP Fiscal Year 1985 priority compounds for in-depth toxicological evaluation.) After the completion of these studies the need for further testing of the glycol ether acetates would be determined. Four of the five compounds have been previously selected for

some type of toxicological study by the NTP. 2-Ethoxyethanol was not mutagenic in the *Salmonella* assay in strains TA98, TA1537, TA1535 and TA100 with and without metabolic activation, and also in the *Drosophila* sex-linked recessive lethal mutation assay. In the *in vitro* cytogenetics assays using Chinese hamster ovary cells, 2-ethoxyethanol induced both chromosomal aberrations and sister chromatid exchanges. A gavage carcinogenicity study on 2-ethoxyethanol is in the histopathology phase. The NTP has conducted a number of reproductive and teratology studies on 2-ethoxyethanol acetate, 2-methoxyethanol acetate, 2-ethoxyethanol, and 2-methoxyethanol.

Interested parties are requested to submit pertinent information.

The following types of data are of particular relevance:

(1) Completed, ongoing and/or planned toxicologic testing in the private sector including detailed experimental protocols and, results in the case of completed studies.

(2) Modes of production, present production levels, and occupational exposure potential.

(3) Uses and resulting exposure levels, where known.

(4) Results of toxicological studies of structurally related compounds.

Please submit all information in writing by (thirty days after date of publication). Any submissions received after the above date will be accepted and utilized where possible.

Dated: October 2, 1985.

David P. Rall, M.D., Ph.D.,

Director, National Toxicology Program.

[FR Doc. 85-23967 Filed 10-7-85; 8:45 am]

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